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## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/511,914A  
Source: PCT  
Date Processed by STIC: 1/13/06

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PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/511,914A**

**DATE: 01/13/2006**  
**TIME: 09:55:19**

**Input Set : A:\37 Sequence Listing.txt**  
**Output Set: N:\CRF4\01132006\J511914A.raw**

3 <110> APPLICANT: Loiler, Scott A.  
 4        Flotte, Terrance R.  
 5        Muzyczka, Nicholas  
 6        Atkinson, Mark  
 8 <120> TITLE OF INVENTION: IMPROVED rAAV VECTORS  
 10 <130> FILE REFERENCE: 36689.37  
 12 <140> CURRENT APPLICATION NUMBER: 10/511,914A  
 13 <141> CURRENT FILING DATE: 2004-10-18  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US03/12225  
 16 <151> PRIOR FILING DATE: 2003-04-17  
 18 <150> PRIOR APPLICATION NUMBER: 60/373,419  
 19 <151> PRIOR FILING DATE: 2002-04-17  
 21 <160> NUMBER OF SEQ ID NOS: 49  
 23 <170> SOFTWARE: PatentIn version 3.3  
 25 <210> SEQ ID NO: 1  
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 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Homo sapiens  
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 37 <211> LENGTH: 13  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Homo sapiens  
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 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 13  
 49 <212> TYPE: PRT  
 50 <213> ORGANISM: Pupaia glis  
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 60 <212> TYPE: PRT  
 61 <213> ORGANISM: Bos taurus  
 63 <400> SEQUENCE: 4  
 65 Ser His Leu Arg Lys Leu Pro Lys Arg Leu Leu Arg Asp  
 66 1           5                   10  
 69 <210> SEQ ID NO: 5

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70 <211> LENGTH: 13
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83 <213> ORGANISM: Canis familiaris
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88 1           5           10
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93 <212> TYPE: PRT
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96 <400> SEQUENCE: 7
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99 1           5           10
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105 <213> ORGANISM: Mus musculus
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124 <222> LOCATION: (3)..(3)
125 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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129 <222> LOCATION: (5)..(8)
130 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (10)..(11)
135 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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140 1           5           10
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144 <211> LENGTH: 13  
145 <212> TYPE: PRT  
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153 <221> NAME/KEY: misc\_feature  
154 <222> LOCATION: (3)..(3)  
155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
157 <220> FEATURE:  
158 <221> NAME/KEY: misc\_feature  
159 <222> LOCATION: (5)..(8)  
160 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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163 <221> NAME/KEY: misc\_feature  
164 <222> LOCATION: (10)..(11)  
165 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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170 1 5 10  
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181 1 5 10  
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185 <211> LENGTH: 10  
186 <212> TYPE: PRT  
187 <213> ORGANISM: Homo sapiens  
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192 1 5 10  
195 <210> SEQ ID NO: 13  
196 <211> LENGTH: 10  
197 <212> TYPE: PRT  
198 <213> ORGANISM: Tupaia glis  
200 <400> SEQUENCE: 13  
202 Leu Arg Lys Met Arg Lys Arg Leu Leu Arg  
203 1 5 10  
206 <210> SEQ ID NO: 14  
207 <211> LENGTH: 10  
208 <212> TYPE: PRT  
209 <213> ORGANISM: Bos taurus  
211 <400> SEQUENCE: 14  
213 Leu Arg Lys Leu Pro Lys Arg Leu Leu Arg  
214 1 5 10  
217 <210> SEQ ID NO: 15

## RAW SEQUENCE LISTING

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Input Set : A:\37 Sequence Listing.txt  
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218 <211> LENGTH: 10  
219 <212> TYPE: PRT  
220 <213> ORGANISM: Homo sapiens  
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225 1 5 10  
228 <210> SEQ ID NO: 16  
229 <211> LENGTH: 10  
230 <212> TYPE: PRT  
231 <213> ORGANISM: Canis familiaris  
233 <400> SEQUENCE: 16  
235 Met Arg Lys Leu Arg Lys Arg Val Leu Arg  
236 1 5 10  
239 <210> SEQ ID NO: 17  
240 <211> LENGTH: 10  
241 <212> TYPE: PRT  
242 <213> ORGANISM: Rattus norvegicus  
244 <400> SEQUENCE: 17  
246 Leu Arg Lys Met Arg Lys Arg Leu Met Arg  
247 1 5 10  
250 <210> SEQ ID NO: 18  
251 <211> LENGTH: 10  
252 <212> TYPE: PRT  
253 <213> ORGANISM: Mus musculus  
255 <400> SEQUENCE: 18  
257 Leu Arg Arg Leu Arg Arg Arg Leu Leu Arg  
258 1 5 10  
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262 <211> LENGTH: 10  
263 <212> TYPE: PRT  
264 <213> ORGANISM: Artificial  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: Synthetic Peptide  
270 <220> FEATURE:  
271 <221> NAME/KEY: misc\_feature  
272 <222> LOCATION: (1)..(1) /  
273 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
275 <220> FEATURE:  
276 <221> NAME/KEY: misc\_feature  
277 <222> LOCATION: (3)..(6) /  
278 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
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282 <222> LOCATION: (8)..(9) /  
283 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
285 <400> SEQUENCE: 19  
W--> 287 Xaa Arg Xaa Xaa Xaa Xaa Arg Xaa Xaa Arg  
288 1 5 10  
291 <210> SEQ ID NO: 20

## RAW SEQUENCE LISTING

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Input Set : A:\37 Sequence Listing.txt  
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292 <211> LENGTH: 10
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294 <213> ORGANISM: Artificial
296 <220> FEATURE:
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300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (1)..(1)
303 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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307 <222> LOCATION: (3)..(6)
308 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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312 <222> LOCATION: (8)..(9)
313 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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318 1           5           10
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322 <211> LENGTH: 18
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Peptide
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332 1           5           10           15
335 Ala Phe
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340 <211> LENGTH: 28
341 <212> TYPE: PRT
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Synthetic Peptide
347 <400> SEQUENCE: 22
349 Leu Arg Lys Leu Arg Lys Arg Leu Leu Arg Asp Trp Leu Lys Ala Phe
350 1           5           10           15
353 Tyr Asp Lys Val Ala Glu Asp Leu Asp Glu Ala Phe
354          20          25
357 <210> SEQ ID NO: 23
358 <211> LENGTH: 28
359 <212> TYPE: PRT
360 <213> ORGANISM: Artificial
362 <220> FEATURE:
363 <223> OTHER INFORMATION: Synthetic Peptide
365 <400> SEQUENCE: 23
367 Leu Arg Lys Leu Arg Glu Arg Leu Leu Arg Asp Trp Leu Lys Ala Phe

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RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 01/13/2006  
PATENT APPLICATION: US/10/511,914A                    TIME: 09:55:21

Input Set : A:\37 Sequence Listing.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. ~~3,5,6,7,8,10,11~~  
Seq#:10; Xaa Pos. ~~3,5,6,7,8,10,11~~  
Seq#:19; Xaa Pos. ~~1,3,4,5,6,8,9~~  
Seq#:20; Xaa Pos. ~~1,3,4,5,6,8,9~~  
Seq#:30; Xaa Pos. 1,3,4,5,6,8,9  
Seq#:31; Xaa Pos. 1,3,4,5,6,8,9  
Seq#:47; Xaa Pos. 1,2,3,4,5,6,7,8

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9,10,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41  
Seq#:42,43,44,45,46,47,48,49

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/511,914A

DATE: 01/13/2006

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Input Set : A:\37 Sequence Listing.txt  
Output Set: N:\CRF4\01132006\J511914A.raw

L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0